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Amendments To the Abstract:

In the English translation document, please add the section heading at page 20 line 1, as follows:

--ABSTRACT--

In the English translation document, please add the paragraph at page 20 line 1, after the newly added ABSTRACT section heading, as follows:  
Binary signals are converted at the transmission end into two optical signals which are combined into a polarization multiplex signal and are then transmitted. The transmitted polarization multiplex signal is divided at the receiving end into two polarized signal parts which are converted in a linear manner into orthogonal electrical components and are supplied to a multidimensional filter. Said multidimensional filter replaces a polarization controller, restores the signal values that correspond to the signals at the transmission end, and compensates signal distortions.